

UNITED STATES DEPARTMENT OF COMMERCE **United States Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENT	OR	A	TTORNEY DOCKET NO.
09/449.61	1 11/30/	99 SHIMURA		K	Q56989
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SUGHRUE MION ZION MACPEAK & SEAS				PARKER, K	
	2100 PENNSYLVANIA AVENUE NW			ART UNIT	PAPER NUMBER
WASHINGIU	N DC 20037			2871	
				DATE MAILED:	05/08/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Application No. 09/449,611

Applicant(s)

Shimura

Office Action Summary

Examiner

Kenneth Parker

Art Unit 2871



	The MAILING DATE of this communication appears or	n the cover s	heet with	the correspondence address		
Period fo	or Reply		•	MAGNITHIS) EDOM		
THE M	PRTENED STATUTORY PERIOD FOR REPLY IS SET T IAILING DATE OF THIS COMMUNICATION.					
afte - If the be - If NO	sions of time may be available under the provisions of 37 CFR er SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days, a considered timely. period for reply is specified above, the maximum statutory pe	reply within riod will apply	the statuto	ory minimum of thirty (30) days will expire SIX (6) MONTHS from the mailing date of this		
- Failure	mmunication. e to reply within the set or extended period for reply will, by s eply received by the Office later than three months after the r rned patent term adjustment. See 37 CFR 1.704(b).	statute, cause nailing date of	the applica f this comr	ation to become ABANDONED (35 U.S.C. § 133). nunication, even if timely filed, may reduce any		
Status						
1) 💢	Responsive to communication(s) filed on Feb 23, 20		*	•		
	This action is FINAL . 2b) ☐ This action					
3) 🗆	Since this application is in condition for allowance exclosed in accordance with the practice under Ex part	ccept for for te Quayle, 1	rmal matt 935 C.D	ters, prosecution as to the merits is . 11; 453 O.G. 213.		
Disposi	tion of Claims			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
4) 💢	Claim(s) 15-25		·	is/are pending in the application.		
4	a) Of the above, claim(s)			is/are withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
6) 🔀	Claim(s) 15-25			to to the make and		
7) 🗆	Claim(s)			is/are objected to.		
8) 🗆	Claims	are subject to restriction and/or election requirement.				
	ation Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are objected to by the Examiner.					
11)	is: a) approved b) disapproved.					
12)		ner.				
13)💢	vunder 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign pr	riority under	35 U.S.(C. § 119(a)-(d).		
	1. Certified copies of the priority documents hav					
	2. X Certified copies of the priority documents hav	e been rece	ived in A	pplication No. <u>08/941,391</u>		
	3. Copies of the certified copies of the priority de application from the International Bure	ocuments ha au (PCT Rul	ave been e 17.2(a)	received in this National Stage)).		
	See the attached detailed Office action for a list of th	oriority upo	ler 35 H	S.C. § 119(e).		
14)	Acknowledgement is made of a claim for domestic	priority unic		0.0. 2		
Attachi	ment(s)		_	INTO AND DOOR NAME		
	Notice of References Cited (PTO-892)			(PTO-413) Peper No(s)		
	Notice of Draftsperson's Patent Drawing Review (PTO-948)	_	of Informal P	atent Application (PTO-152)		
17)	Information Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. Claim 14-17-20, 22, 24 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Parulskie et al, U.S. Patent # 5,828,406.

This reference discloses LCD's having pixels with widths 2/3rds of their heights (column 1, lines 60-65). Parulski discusses the remapping of the pixels (see abstract associated figure). Therefore, these claims are anticipated by this reference.

2. Claims 14-15, 17-24 is rejected under 35 U.S.C. 102(e) as being clearly anticipated by Ishimoto et al, U.S. Patent # 5,594,564.

This reference discloses pixels with a 30 to 1 height to width (see abstract, title and associated figures). Therefore, these claims are anticipated by this reference.

3. Claim 14-15, 17-24 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Aoki et al, U.S. Patent # 4,654,117.

Aoki discloses a liquid crystal device in which three pixel electrodes with a width of approximately 1/3 of the high are used side by side to create a full color display. As discussed in the rejection under 112 above, it is unclear what meaning applicant is intending to use for pixel, so

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the common usage established in the LCD technology of a pixel being defined by the pixel electrode. Therefore, the disclosures of figures 6 and 7 anticipate the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

4. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parulskie et al, U.S. Patent # 5,828,406.

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Lacking form the disclosure is the claimed brightness level. **It was well known that higher brightness was more desirable for the end user, and therefore it would have been obvious, to employ a high brightness light source producing a high brightness image as was well known in the industry as desirable.

5. Claims 16 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishimoto et al, U.S. Patent # 5,594,564.

Lacking form the disclosure is the claimed brightness level. It was well known that higher brightness was more desirable for the end user, and therefore it would have been obvious, to employ a high brightness light source producing a high brightness image as was well known in the industry as desirable.

Additionally, the rescaling of images and the conversion of a black and white image to be displayed in a color display were **conventionally employed in computers which drove LCDs, and well known for enabling the viewing of arbitrary images, and therefore obvious for the conventional nature as well as the advantage of enabling the viewing of arbitrary images.

6. Claims 16 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al, U.S. Patent # 4,654,117.

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Lacking form the disclosure is the claimed brightness level. It was well known that higher brightness was more desirable for the end user, and therefore it would have been obvious, to employ a high brightness light source producing a high brightness image as was well known in the industry as desirable.

Additionally, the rescaling of images and the conversion of a black and white image to be displayed in a color display were **conventionally employed in computers which drove LCDs, and well known for enabling the viewing of arbitrary images, and therefore obvious for the conventional nature as well as the advantage of enabling the viewing of arbitrary images.

Any item marked with () is given as official notice.

Note: Any assertions that an element, practice or relationship was conventional has the incorporates the motivations of the benefits of having established supply chains, well understood behavior and manufacturing methodologies.

Response to Arguments

Applicant's arguments filed have been fully considered but they are not persuasive.

Applicant argues that the references are silent on the density and only refer to pixel size. As pixel size is the inverse of density (larger size=smaller density), these refer to the same exact feature.

Applicant's confirmation of the meaning used for pixel electrode is acknowledged, and the 112 rejection has been dropped. However, this meaning implies that the language includes side by side color triads, which give a 3:1 ratio even for square pixels, and of which there are dozens or hundreds of references which be 102 references (the reference applied being just one example).

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date

of this final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Kenneth Parker whose telephone number is (703) 305-6202. The fax phone

number for this Group is (703) 308-7722. Any inquiry of a general nature or relating to the status

of this application or preceding should be directed to the Group receptionist whose telephone

number is (703) 308-0956.

May 7, 2001

KENNETH/ALLEN PARKER

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